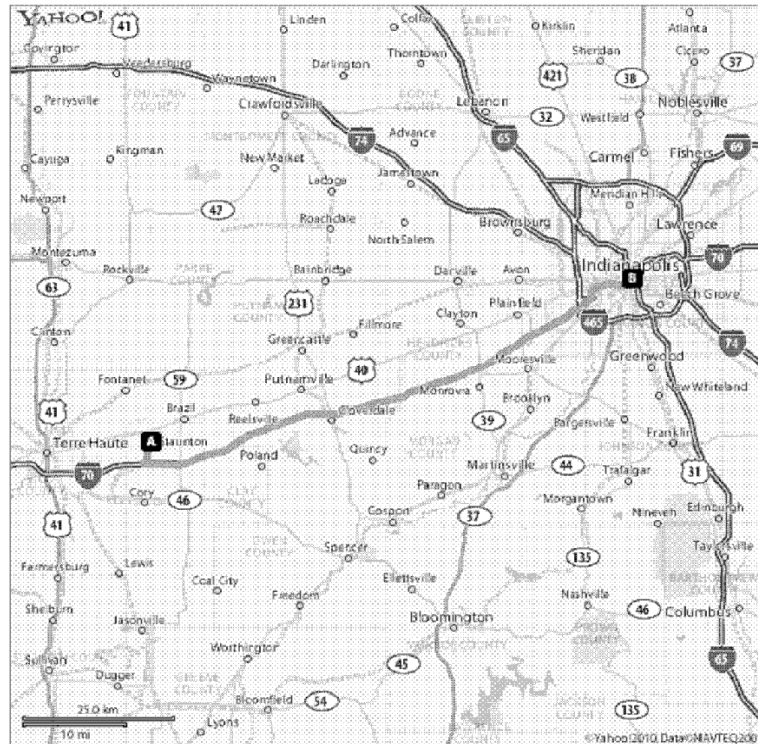


Appendix A

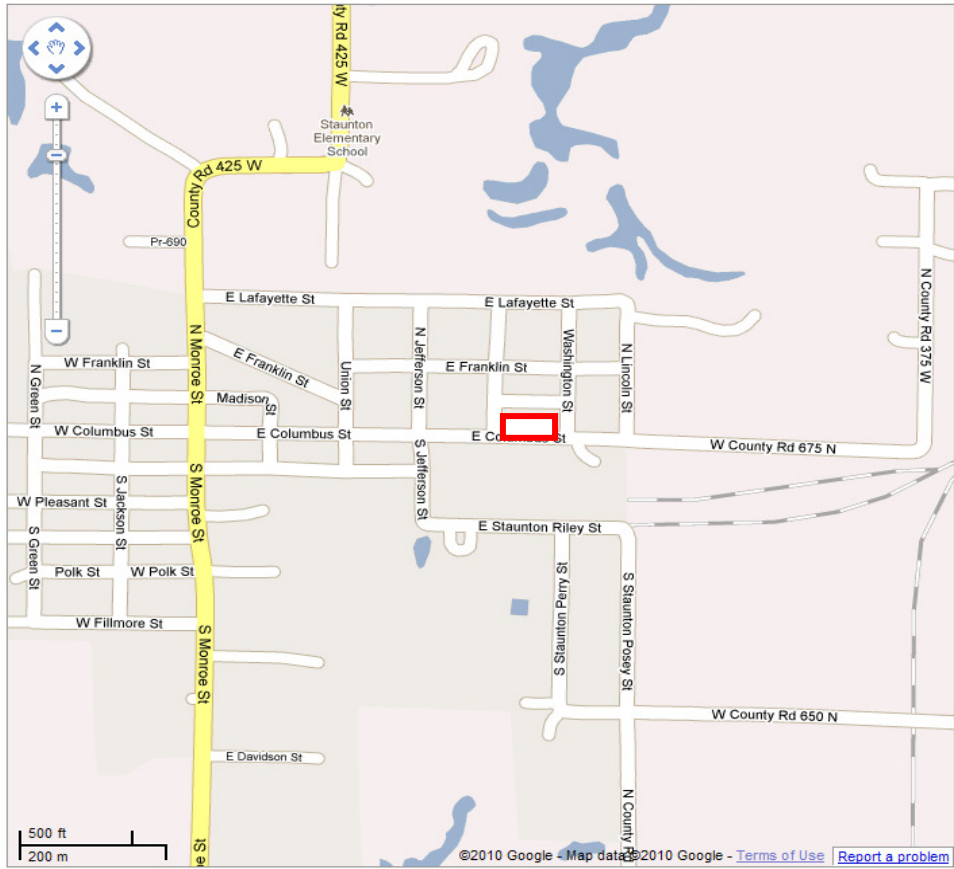
Location Map

Directions to Indianapolis, IN

Total Time: 1 hours 10 mins, Total Distance: 67.35 mi

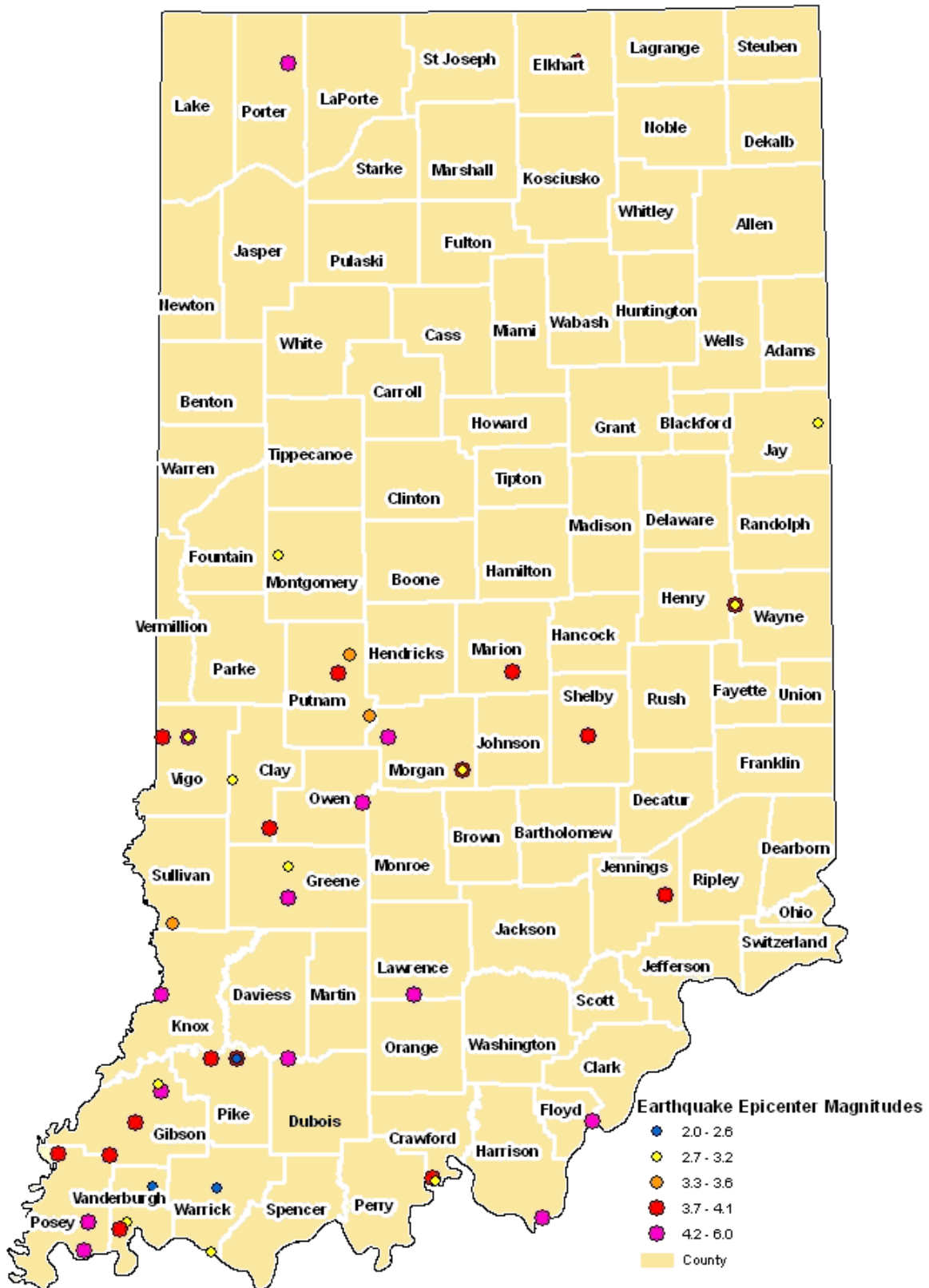


When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.



Appendix A

Historical Clay County Earthquake Epicenters

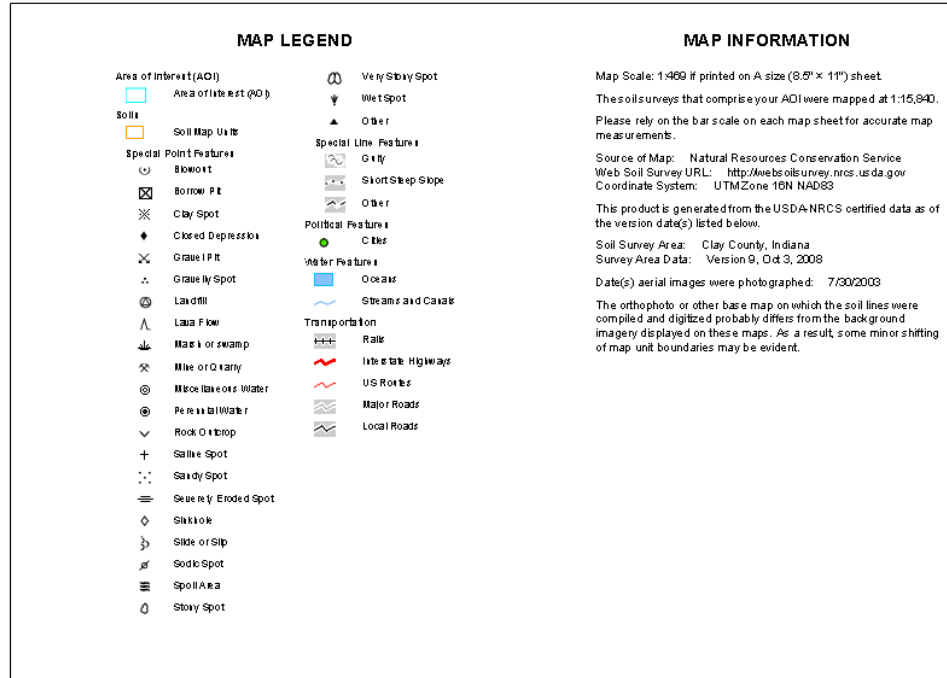


Soil Map—Clay County, Indiana
(Posey Twp. Vol. Fire Dept. Lots)



Soil Map (cont'd)

Soil Map—Clay County, Indiana
(Posey Twp. Vol. Fire Dept. Lots)



Soil Map—Clay County, Indiana

Posey Twp. Vol. Fire Dept. Lots

Map Unit Legend

Clay County, Indiana (IN021)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
IvA	Iva silt loam, 0 to 2 percent slopes	0.9	99.8%
MuE2	Muren silt loam, 2 to 6 percent slopes, eroded	0.0	0.2%
Totals for Area of Interest		0.9	100.0%

Soil Survey Report

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called non-contrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned; however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Appendix A

Soil Survey Report (cont'd)

Some map units are made up of two or more major soils or miscellaneous areas.

These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportions of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, are an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Clay County, Indiana

IvA—Iva silt loam, 0 to 2 percent slopes

Map Unit Setting

Elevation: 350 to 1,000 feet

Mean annual precipitation: 40 to 46 inches

Mean annual air temperature: 52 to 56 degrees F

Frost-free period: 170 to 200 days

Map Unit Composition

Iva and similar soils: 90 percent

Description of Iva

Setting

Landform: Loess hills

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loess

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.02 to 0.60 in/hr)

Depth to water table: About 6 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: High (about 10.2 inches)

Appendix A

Soil Survey Report (cont'd)

Interpretive groups

Land capability (non-irrigated): 2w

Typical profile

0 to 12 inches: Silt loam

12 to 34 inches: Silty clay loam

34 to 51 inches: Silt loam

51 to 60 inches: Silt loam

MuB2—Muren silt loam, 2 to 6 percent slopes, eroded

Map Unit Setting

Elevation: 350 to 1,000 feet

Mean annual precipitation: 40 to 46 inches

Mean annual air temperature: 52 to 56 degrees F

Frost-free period: 170 to 200 days

Map Unit Composition

Muren and similar soils: 100 percent

Description of Muren

Setting

Landform: Loess hills

Landform position (two-dimensional): Summit, shoulder

Landform position (three-dimensional): Side slope

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Loess

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

*Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high
(0.60 to 2.00 in/hr)*

Depth to water table: About 12 to 24 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: High (about 11.9 inches)

Interpretive groups

Land capability (non-irrigated): 2e

Typical profile

0 to 9 inches: Silt loam

9 to 54 inches: Silty clay loam

54 to 60 inches: Silt loam

Appendix A

Soil Survey Report (cont'd)

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